CLAIMS:

1. A lamp comprising a cap (6) and a burner (1) attached to the cap, wherein the burner (1) and the cap (6) are connected through a metal part (3), which part (3) engages the burner (1), characterized in that the metal part (3) has at least two legs (5), a portion of each leg (5) engaging a corresponding portion of the cap (6), said corresponding portion being of synthetic resin material, which portion of each leg (5) has been heated in order to melt the synthetic resin material and to deform it so as to correspond to the shape of the leg (5), whereby a mutual engagement of said portion of the leg (5) and said corresponding portion of the cap (6) is obtained.

2. A lamp as claimed in claim 1, characterized in that said part (3) has three legs (5).

3. A lamp as claimed in any one of the preceding claims, characterized in that said metal part (3) comprises an annular portion (2) surrounding a portion of the burner (1), while said legs (5) extend from said annular portion (2).

4. A lamp as claimed in claim 3, characterized in that said annular portion (2) includes spring means (4), so that said portion of the burner (1) is engaged by said annular portion (2) by clamping.

5. A lamp as claimed in any one of the preceding claims, characterized in that at least portions of the legs (5) mutually diverge in the direction away from the burner (1).

6. A lamp as claimed in any one of the preceding claims, characterized in that said legs (5) are leaf springs.

7. A lamp as claimed in any one of the preceding claims, characterized in that said portion of each leg (5) has a shape comprising one or more edges that enclose an angle with the longitudinal direction of the leg (5).

8. A lamp as claimed in any one of the preceding claims, characterized in that said portion of each leg (5) comprises one or more holes (20).

9. A method of attaching the burner (1) of a lamp to the cap (6) of the lamp, whereby a metal part (3) is fixed to the burner (1) and said metal part (3) is fixed to the cap (6), characterized in that the metal part (3) has at least two legs (5), and in that – during fixation – the burner (1) and the cap (6) are kept in a predetermined position with respect to each other such that a portion of each leg (5) abuts against a corresponding portion of the cap (6), said corresponding portion being of synthetic resin material, in which method said portion of each leg (5) is heated in order to melt the synthetic resin material and to deform it so as to correspond to the shape of the leg (5), to obtain a mutual engagement of said portion of the leg (5) and said corresponding portion of the cap (6).

10. A method as claimed in claim 8, characterized in that said portions of the legs (5) are heated by HF (high-frequency) heating.